

**PATENT**  
**THMC:015US**

**UNITED STATES PATENT APPLICATION**  
**for**  
**DEVICES FOR HOLDING PAPER, CARDS, AND WALLETS**  
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**CROSS-REFERENCE(S) TO RELATED APPLICATION(S)**

2        This application claims priority to U.S. Provisional Patent Application Serial No.  
3        60/458,492, filed March 28, 2003, the entire contents of which are expressly incorporated  
4        by reference.

5

**BACKGROUND OF THE INVENTION**

6        **1. Field of the Invention**

7        The present invention relates generally to devices that hold paper, cards, and/or a  
8        wallet.

9        **2. Description of Related Art**

10       Devices that hold money, whether in the form of paper currency or credit cards,  
11       come in a variety of shapes and sizes. Examples of such devices, sometimes referred to  
12       as money clips, are found in U.S. Patent Nos. 6,327,749, 5,249,437, and 4,675,953.  
13       Devices known as binder clips, which are typically used in an office setting for keeping  
14       documents together in the absence of a staple, have been used as money clips. This is  
15       true of both binder clips without ornamentation of any kind, such as those depicted in  
16       U.S. Patent Nos. 1,150,073 and 1,139,627, and with ornamentation as shown in U.S.  
17       Patent No. 6,327,749. Other binder clips are disclosed in U.S. Patent Nos. D372,498 and  
18       D321,210.

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**SUMMARY OF THE INVENTION**

20       The present invention includes devices suited to holding paper (such as currency,  
21       notes, receipts, business cards or the like), cards (such as credit cards or the like), and/or  
22       wallets. The devices may be used to advertise corporate or other types of logos. The

1 present devices may be referred to as money clips, although they are well-suited to  
2 holding things other than money.

3         In one embodiment, the invention is a device that comprises a clip having two  
4 ends and a leverage bump; and an arm pivotally coupled to each end. One of the arms  
5 contacts the leverage bump when the clip is opened. In one version of this embodiment,  
6 the leverage bump includes two outer portions and a middle portion, and the two outer  
7 portions protrude more outwardly from the clip than the middle portion. In another  
8 version of this embodiment, the clip has two leverage bumps, and each arm contacts a  
9 leverage bump when the clip is opened. In another version of this embodiment, each  
10 leverage bump includes two outer portions and a middle portion, and the two outer  
11 portions of each leverage bump protrude more outwardly from the clip than the middle  
12 portion. In another version of this embodiment, each arm includes two hinge elements  
13 separated by two slots and a middle segment, and each hinge element has an elongated  
14 segment and a hinge segment. In another version of this embodiment, each end of the  
15 clip includes an arm-retaining portion, and the hinge segments of a given arm fit at least  
16 partially within the arm-retaining portion of an end of the clip. In another version of this  
17 embodiment, the hinge elements of each arm are longer than the middle segment of that  
18 arm. In another version of this embodiment, an edge of the middle segment of each arm  
19 is positioned near the arm-retaining portion of an end of the clip. In another version of  
20 this embodiment, each arm has a widest portion and the clip has a widest portion, and the  
21 widest portions of the arms and the clip have substantially the same width. In another  
22 version of this embodiment, the widest portion of each arm is positioned near the widest  
23 portion of the clip. In another version of this embodiment, each arm includes an

1       indentation. In another version of this embodiment, each arm includes an insert in the  
2       indentation. In another version of this embodiment, the device also includes a wallet  
3       configured to be held by the clip.

4           In another embodiment, the invention is a device that includes a clip having a  
5       receiving portion and a holding portion, the receiving portion including an arch, and the  
6       holding portion including two ends; and an arm pivotally coupled to each end. In one  
7       version of this embodiment, the clip has two leverage bumps, and each arm contacts a  
8       leverage bump when the clip is opened. In another version of this embodiment, each arm  
9       includes two hinge elements separated by two slots and a middle segment, and each hinge  
10      element has an elongated segment and a hinge segment. In another version of this  
11      embodiment, each end of the clip includes an arm-retaining portion, and the hinge  
12      segments of a given arm fit at least partially within the arm-retaining portion of an end of  
13      the clip. In another version of this embodiment, each arm has a widest portion and the  
14      clip has a widest portion, and the widest portions of the arms and the clip have  
15      substantially the same width. In another version of this embodiment, the widest portion  
16      of each arm is positioned near the widest portion of the clip. In another version of this  
17      embodiment, the device also includes a wallet configured to be held by the clip.

18           In another embodiment, the invention is a device that has a spring having an  
19       arcuate-shaped portion at one end and two arm-retaining portions; and an arm pivotally  
20      coupled to each arm-retaining portion. In one version of this embodiment, the spring also  
21      has a leverage bump that is contacted by one of the arms when the spring is opened. In  
22      another version of this embodiment, the spring also has two leverage bumps, and each  
23      arm contacts a leverage bump when the spring is opened. In another version of this

1 embodiment, the leverage bump includes two outer portions and a middle portion, and  
2 the two outer portions protrude more outwardly from the spring than the middle portion.  
3 In another version of this embodiment, each leverage bump includes two outer portions  
4 and a middle portion, and the two outer portions of each leverage bump protrude more  
5 outwardly from the spring than the middle portion. In another version of this  
6 embodiment, each arm includes two hinge elements separated by two slots and a middle  
7 segment, and each hinge element has an elongated segment and a hinge segment. In  
8 another version of this embodiment, the hinge segments of a given arm fit at least  
9 partially within an arm-retaining portion of the spring. In another version of this  
10 embodiment, the hinge elements of each arm are longer than the middle segment of that  
11 arm. In another version of this embodiment, an edge of the middle segment of each arm is  
12 positioned near an arm-retaining portion of the spring. In another version of this  
13 embodiment, each arm has a widest portion and the spring has a widest portion, and the  
14 widest portions of the arms and the spring have substantially the same width. In another  
15 version of this embodiment, the widest portion of each arm is positioned near the widest  
16 portion of the spring. In another version of this embodiment, each arm includes an  
17 indentation. In another version of this embodiment, each arm includes an insert in the  
18 indentation. In another version of this embodiment, the device also includes a wallet  
19 configured to be held by the spring.

20       In another embodiment, the invention is a device that includes a clip having an  
21 outer surface; an outer element contacting the outer surface of the clip, the outer element  
22 having two ends; and an arm pivotally coupled to each end. In one version of this  
23 embodiment, one arm includes a protrusion, and the protrusion contacts the outer element

1 when the clip is opened. In another version of this embodiment, the outer element  
2 includes two sides that are hinged together. In another version of this embodiment, the  
3 two sides are hinged together with a pin. In another version of this embodiment, each side  
4 includes an outer surface and a recessed portion in the outer surface. In another version of  
5 this embodiment, each arm includes a protrusion. In another version of this embodiment,  
6 each arm is pivotally coupled to an end with a pin. In another version of this embodiment,  
7 each arm includes a coupling portion that contacts the pin coupling that arm to an end. In  
8 another version of this embodiment, the outer element includes an inner surface that  
9 includes a recessed portion, and the clip contacts the recessed portion of the inner surface.  
10 In another version of this embodiment, where the outer element includes two sides that  
11 are coupled, each side has an inner surface, the inner surfaces of the sides together  
12 comprise the inner surface of the outer element, the inner surfaces of the two sides each  
13 include a recessed portion that is part of the recessed portion of the inner surface of the  
14 outer element, and the clip contacts the recessed portion of the inner surface of each of  
15 the two sides. In another version of this embodiment, the recessed portion of the inner  
16 surface of each side is bordered by two shoulder portions. In another version of this  
17 embodiment, each shoulder portion includes a groove into which a portion of the clip fits.  
18 In another version of this embodiment, each arm includes a coupling portion that contacts  
19 a pin hinging the arm to an end. In another version of this embodiment, each end includes  
20 a coupling portion that contacts the pin hinging an arm to the end. In another version of  
21 this embodiment, the clip includes a back portion and two retainer portions, each retainer  
22 portion having an upper retainer element and a lower retainer element, the upper and  
23 lower retainer elements of each retainer portion being separated by a holding element that

1 extends farther from the back portion than either retainer element. In another version of  
2 this embodiment, the device includes a wallet configured to be held by the clip.

3       In another embodiment, the invention is a device that includes a clip; an outer  
4 element having a recess and two ends, a portion of the clip contacting a portion of the  
5 recess; and an arm pivotally coupled to each end with a pin. In one version of this  
6 embodiment, each arm includes a protrusion, and both protrusions contact the outer  
7 element when the clip is opened. In another version of this embodiment, the outer  
8 element includes an outer surface and two recessed portions in the outer surface. In  
9 another version of this embodiment, the device also includes a wallet configured to be  
10 held by the clip.

11       In another embodiment, the invention is a device that includes a clip having an  
12 outer surface; an outer element contacting the outer surface of the clip, the outer element  
13 having two sides, each side having two elongated elements defining between them an arm  
14 recess; and an arm pivotally coupled to each side of the outer element and positioned in  
15 an arm recess. In one version of this embodiment, one arm includes a leverage bump, and  
16 the leverage bump contacts the outer element when the clip is opened. In another version  
17 of this embodiment, each arm includes a leverage bump, and each leverage bump  
18 contacts the outer element when the clip is opened. In another version of this  
19 embodiment, one arm includes a leverage bump, one side includes a leverage bump, and  
20 the leverage bump of the arm contacts the leverage bump of the side when the clip is  
21 opened. In another version of this embodiment, each arm includes a leverage bump, each  
22 side includes a leverage bump, and the leverage bump of each arm contacts the leverage

1 bump of a side when the clip is opened. In another version of this embodiment, the device  
2 also includes a wallet configured to be held by the clip.

3 In another embodiment, the invention is a device that includes a clip having two  
4 hinges positioned beside each other, each hinge having two outer open ends; and an arm  
5 pivotally coupled to each hinge, each arm including two hinge segments that are  
6 positioned at least partially within the two outer open ends of each hinge, one of the  
7 hinge segments having a non-circular cross-sectional profile. The device is sized to hold  
8 one or more of paper, cards and a wallet. In one version of this embodiment, the clip has  
9 a leverage bump positioned such that one of the arms contacts the leverage bump when  
10 the clip is opened. In another version of this embodiment, each arm has an elongated  
11 segment extending from the hinge segment of that arm; and, when the clip is opened, an  
12 elongated segment of a given arm contacts the clip before the given arm contacts the  
13 leverage bump. In another version of this embodiment, the clip has two leverage bumps,  
14 and each arm contacts a leverage bump when the clip is opened. In another version of this  
15 embodiment, the elongated segments of a given arm are separated by two slots and a  
16 middle segment. In another version of this embodiment, each arm has a hinge element  
17 that includes one of the elongated segments and one of the hinge segments, and the hinge  
18 element of a given arm is longer than the middle segment of the given arm. In another  
19 version of this embodiment, an edge of the middle segment of each arm is positioned near  
20 a hinge of the clip. In another version of this embodiment, each arm has a widest portion  
21 and the clip having a widest portion, and the widest portions of the arms and the clip have  
22 substantially the same width. In another version of this embodiment, the widest portion of  
23 each arm is positioned near the widest portion of the clip. In another version of this

1 embodiment, each arm includes an indentation. In another version of this embodiment, the  
2 indentation of one of the arms protrudes outwardly so as to be closer to the leverage bump  
3 of the clip than any other portion of that arm when that arm is bent back and in contact  
4 with the leverage bump. In another version of this embodiment, the device also includes a  
5 wallet configured to be held by the clip.

6 In another embodiment, the invention is a device that includes a clip that is not  
7 substantially triangular in shape when in an empty closed position, the clip having two  
8 ends; and an arm pivotally coupled to each end. The device is sized to hold one or more  
9 of paper, cards and a wallet. In one version of this embodiment, each end has a hinge to  
10 which an arm is pivotally coupled. In another version of this embodiment, each arm  
11 includes two hinge segments that are positioned at least partially within the hinge to  
12 which that arm is pivotally coupled, and one of the hinge segments has a non-circular  
13 cross-sectional profile. In another version of this embodiment, the clip has a leverage  
14 bump positioned such that one of the arms contacts the leverage bump when the clip is  
15 opened. In another version of this embodiment, each arm has an elongated segment  
16 extending from the hinge segment of that arm; and, when the clip is opened, an elongated  
17 segment of a given arm contacts the clip before the given arm contacts the leverage  
18 bump. In another version of this embodiment, the clip has two leverage bumps, and each  
19 arm contacts a leverage bump when the clip is opened. In another version of this  
20 embodiment, the elongated segments of a given arm are separated by two slots and a  
21 middle segment. In another version of this embodiment, each arm has a hinge element  
22 that includes one of the elongated segments and one of the hinge segments, and the hinge  
23 element of a given arm are longer than the middle segment of the given arm. In another

1 version of this embodiment, an edge of the middle segment of each arm is positioned near  
2 a hinge of the clip. In another version of this embodiment, each arm has a widest portion  
3 and the clip having a widest portion, and the widest portions of the arms and the clip have  
4 substantially the same width. In another version of this embodiment, the widest portion of  
5 each arm is positioned near the widest portion of the clip. In another version of this  
6 embodiment, each arm includes an indentation. In another version of this embodiment, the  
7 indentation of one of the arms protrudes outwardly so as to be closer to the leverage bump  
8 of the clip than any other portion of that arm when that arm is bent back and in contact  
9 with the leverage bump. In another version of this embodiment, the device also includes a  
10 wallet configured to be held by the clip. In another version of this embodiment, each arm  
11 is a non-wire frame arm.

12 In another embodiment, the invention is a device that includes a clip that has an  
13 open position that includes two substantially parallel sides connected by an arch, the clip  
14 also having two ends; and an arm pivotally coupled to each end. The device is sized to  
15 hold one or more of paper, cards and a wallet. In one version of this embodiment, each  
16 arm is a non-wire frame arm. In another version of this embodiment, each end has a hinge  
17 to which an arm is pivotally coupled. In another version of this embodiment, each arm  
18 includes two hinge segments that are positioned at least partially within the hinge to  
19 which that arm is pivotally coupled, and one of the hinge segments having a non-circular  
20 cross-sectional profile. In another version of this embodiment, the clip has a leverage  
21 bump positioned such that one of the arms contacts the leverage bump when the clip is  
22 opened. In another version of this embodiment, each arm has an elongated segment  
23 extending from the hinge segment of that arm; and, when the clip is opened, an elongated

1      segment of a given arm contacts the clip before the given arm contacts the leverage  
2      bump. In another version of this embodiment, the clip has two leverage bumps, and each  
3      arm contacts a leverage bump when the clip is opened. In another version of this  
4      embodiment, the elongated segments of a given arm are separated by two slots and a  
5      middle segment. In another version of this embodiment, each arm has a hinge element  
6      that includes one of the elongated segments and one of the hinge segments, and the hinge  
7      element of a given arm are longer than the middle segment of the given arm. In another  
8      version of this embodiment, an edge of the middle segment of each arm is positioned near  
9      a hinge of the clip. In another version of this embodiment, each arm has a widest portion  
10     and the clip having a widest portion, and the widest portions of the arms and the clip have  
11     substantially the same width. In another version of this embodiment, the widest portion of  
12     each arm is positioned near the widest portion of the clip. In another version of this  
13     embodiment, each arm includes an indentation. In another version of this embodiment, the  
14     indentation of one of the arms protrudes outwardly so as to be closer to the leverage bump  
15     of the clip than any other portion of that arm when that arm is bent back and in contact  
16     with the leverage bump. In another version of this embodiment, the device also includes a  
17     wallet configured to be held by the clip.

18            In another embodiment, the invention is a device that includes a clip having two  
19     arm-retaining portions that are positioned beside each other when the clip is in an empty  
20     closed position; and a non-wire frame arm pivotally coupled to each arm-retaining  
21     portion. Each arm-retaining portion and the non-wire frame arm pivotally coupled to that  
22     arm-retaining portion are configured such that the non-wire frame arms snap into position  
23     as they are moved from a bent-back position to a closed position. The device is sized to

1 hold one or more of paper, cards and a wallet. In one version of this embodiment, the clip  
2 has an open position that includes two substantially parallel sides connected by an arch,  
3 and the arm-retaining portions of the clip define two ends of the clip. In another version  
4 of this embodiment, each arm includes two hinge segments that are positioned at least  
5 partially within the arm-retaining portion to which that arm is pivotally coupled, and one  
6 of the hinge segments has a non-circular cross-sectional profile. In another version of this  
7 embodiment, the clip has a leverage bump positioned such that one of the arms contacts  
8 the leverage bump when the clip is opened. In another version of this embodiment, each  
9 arm has an elongated segment extending from the hinge segment of that arm; and, when  
10 the clip is opened, an elongated segment of a given arm contacts the clip before the given  
11 arm contacts the leverage bump. In another version of this embodiment, the clip has two  
12 leverage bumps, and each arm contacts a leverage bump when the clip is opened. In  
13 another version of this embodiment, the elongated segments of a given arm are separated  
14 by two slots and a middle segment. In another version of this embodiment, each arm has  
15 a hinge element that includes one of the elongated segments and one of the hinge  
16 segments, and the hinge element of a given arm are longer than the middle segment of the  
17 given arm. In another version of this embodiment, an edge of the middle segment of each  
18 arm is positioned near a hinge of the clip. In another version of this embodiment, each  
19 arm has a widest portion and the clip having a widest portion, and the widest portions of  
20 the arms and the clip have substantially the same width. In another version of this  
21 embodiment, the widest portion of each arm is positioned near the widest portion of the  
22 clip. In another version of this embodiment, each arm includes an indentation. In another  
23 version of this embodiment, the indentation of one of the arms protrudes outwardly so as to

1       be closer to the leverage bump of the clip than any other portion of that arm when that  
2       arm is bent back and in contact with the leverage bump. In another version of this  
3       embodiment, the device also includes a wallet configured to be held by the clip.

4           In another embodiment, the invention is a device that includes a clip that has (a) a  
5       main portion, (b) two hinges that define a first end, and (c) a second end; and an arm  
6       pivotally coupled to each hinge. The clip and arms are configured such that when force  
7       is applied to begin opening the clip, contact between a given arm and the main portion of  
8       the clip occurs at a location that is closer to the first end than to the second end, and the  
9       clip will begin to open before any contact between the given arm and the main portion of  
10      the clip occurs at a second location that is closer to the second end than the first end. The  
11     device is sized to hold one or more of paper, cards and a wallet. In one version of this  
12     embodiment, each arm is a non-wire frame arm. In another version of this embodiment,  
13     each arm includes two hinge segments that are positioned at least partially within the  
14     hinge to which that arm is pivotally coupled, and one of the hinge segments has a non-  
15     circular cross-sectional profile. In another version of this embodiment, the clip has a  
16     leverage bump positioned such that one of the arms contacts the leverage bump when the  
17     clip is opened. In another version of this embodiment, each arm has an elongated segment  
18     extending from the hinge segment of that arm; and, when the clip is opened, an elongated  
19     segment of a given arm contacts the clip before the given arm contacts the leverage  
20     bump. In another version of this embodiment, the clip has two leverage bumps, and each  
21     arm contacts a leverage bump when the clip is opened. In another version of this  
22     embodiment, the elongated segments of a given arm are separated by two slots and a  
23     middle segment. In another version of this embodiment, each arm has a hinge element

1 that includes one of the elongated segments and one of the hinge segments, and the hinge  
2 element of a given arm are longer than the middle segment of the given arm. In another  
3 version of this embodiment, an edge of the middle segment of each arm is positioned near  
4 a hinge of the clip. In another version of this embodiment, each arm has a widest portion  
5 and the clip having a widest portion, and the widest portions of the arms and the clip have  
6 substantially the same width. In another version of this embodiment, the widest portion of  
7 each arm is positioned near the widest portion of the clip. In another version of this  
8 embodiment, each arm includes an indentation. In another version of this embodiment, the  
9 indentation of one of the arms protrudes outwardly so as to be closer to the leverage bump  
10 of the clip than any other portion of that arm when that arm is bent back and in contact  
11 with the leverage bump. In another version of this embodiment, the device also includes a  
12 wallet configured to be held by the clip.

13       In another embodiment, the invention is a device that includes a clip having two  
14 ends; and an arm pivotally coupled to each end, each arm having a length and being  
15 bowed along the length. The device is sized to hold one or more of paper, cards and a  
16 wallet. In one version of this embodiment, each arm is a non-wire frame arm. In another  
17 version of this embodiment, each end has a hinge to which an arm is pivotally coupled. In  
18 another version of this embodiment, each arm includes two hinge segments that are  
19 positioned at least partially within the hinge to which that arm is pivotally coupled, and  
20 one of the hinge segments having a non-circular cross-sectional profile. In another  
21 version of this embodiment, the clip has a leverage bump positioned such that one of the  
22 arms contacts the leverage bump when the clip is opened. In another version of this  
23 embodiment, each arm has an elongated segment extending from the hinge segment of

1       that arm; and, when the clip is opened, an elongated segment of a given arm contacts the  
2       clip before the given arm contacts the leverage bump. In another version of this  
3       embodiment, the clip has two leverage bumps, and each arm contacts a leverage bump  
4       when the clip is opened. In another version of this embodiment, the elongated segments  
5       of a given arm are separated by two slots and a middle segment. In another version of this  
6       embodiment, each arm has a hinge element that includes one of the elongated segments  
7       and one of the hinge segments, and the hinge element of a given arm are longer than the  
8       middle segment of the given arm. In another version of this embodiment, an edge of the  
9       middle segment of each arm is positioned near a hinge of the clip. In another version of  
10      this embodiment, each arm has a widest portion and the clip having a widest portion, and  
11      the widest portions of the arms and the clip have substantially the same width. In another  
12      version of this embodiment, the widest portion of each arm is positioned near the widest  
13      portion of the clip. In another version of this embodiment, each arm includes an  
14      indentation. In another version of this embodiment, the indentation of one of the arms  
15      protrudes outwardly so as to be closer to the leverage bump of the clip than any other  
16      portion of that arm when that arm is bent back and in contact with the leverage bump. In  
17      another version of this embodiment, the device also includes a wallet configured to be  
18      held by the clip.

19           Other embodiments of the present devices are described below.

20           **BRIEF DESCRIPTION OF THE DRAWINGS**

21           The following drawings demonstrate certain aspects of the present devices. They  
22       illustrate by way of example and not limitation. The embodiments of the present devices  
23       depicted in the drawings are to scale unless otherwise noted. The paper positioned

1 around the wallets depicted in certain of the present figures is a generic representation of  
2 U.S. dollars that is not to scale.

3 FIG. 1 is a perspective view of one of the present devices.

4 FIG. 2 is a side view of the device shown in FIG. 1.

5 FIG. 3 is a front view of the device shown in FIG. 1.

6 FIG. 4 is a back view of the device shown in FIG. 1.

7 FIG. 5 is a top view of the device shown in FIG. 1.

8 FIG. 6 is a side view of an arm of the device shown in FIG. 1.

9 FIG. 7 is an exploded view of the elements of the device shown in FIG. 1, viewed  
10 in perspective.

11 FIG. 8 is a perspective view of the device shown in FIG. 1, where the arms of the  
12 device are bent back, but the clip of the device is not open.

13 FIG. 9 is a top view of the device shown in FIG. 1, depicting that device in an  
14 opened position.

15 FIG. 10 is a top view of the device shown in FIG. 1, showing that the device can  
16 include a wallet.

17 FIG. 11 is a side view of another of the present devices.

18 FIG. 12 is a top view of the device shown in FIG. 11.

19 FIG. 13 is a side view of an arm of the device shown in FIG. 11.

20 FIG. 14 is a side view of another of the present devices.

1 FIG. 15 is a top view of the device shown in FIG. 14.

2 FIG. 16 is a side view of an arm of the device shown in FIG. 14.

3 FIG. 17 is a perspective view of another of the present devices.

4 FIG. 18 is a side view of the device shown in FIG. 17.

5 FIG. 19 is a front view of the device shown in FIG. 17.

6 FIG. 20 is a back view of the device shown in FIG. 17.

7 FIG. 21 is a top view of the device shown in FIG. 17.

8 FIG. 22 is a cross sectional view of the device shown in FIG. 17, taken along  
9 cross-sectional line 18-18 shown in FIG. 18.

10 FIG. 23 is a view of the inter surface of one of the sides of the outer element of  
11 the device in FIG. 17.

12 FIG. 24 is a perspective view of the side shown in FIG. 23.

13 FIG. 25 is an exploded view of the elements of the device shown in FIG. 17,  
14 viewed in perspective.

15 FIG. 26 is a top view of the device shown in FIG. 17, depicting that device in an  
16 opened position around a wallet.

17 FIG. 27A is a side view of the device shown in FIG. 17 in a closed position  
18 around a wallet and lacking the indentation shown in FIG. 17.

19 FIG. 27B is a cross-sectional view of the device depicted in FIG. 27A, taken  
20 along cross-sectional line 27A-27A in FIG. 27A.

1 FIG. 27C is a view of the detail circled in FIG. 27B.

2 FIGS. 28A-28O include a series of side, cross-sectional and detail views showing  
3 different positions of the arms of the device shown in FIG. 17 relative to holding  
4 elements of the clip of that device. Specifically, FIG. 28B is a cross-sectional view taken  
5 along cross-sectional line 28A-28A in FIG. 28A; FIG. 28C is a view of the detail circled  
6 in FIG. 28B; FIG. 28E is a cross-sectional view taken along cross-sectional line 28D-28D  
7 in FIG. 28D; FIG. 28F is a view of the detail circled in FIG. 28E; FIG. 28H is a cross-  
8 sectional view taken along cross-sectional line 28G-28G in FIG. 28G; FIG. 28I is a view  
9 of the detail circled in FIG. 28H; FIG. 28K is a cross-sectional view taken along cross-  
10 sectional line 28J-28J in FIG. 28J; FIG. 28L is a view of the detail circled in FIG. 28K;  
11 FIG. 28N is a cross-sectional view taken along cross-sectional line 28M-28 in FIG. 28M;  
12 and FIG. 28O is a view of the detail circled in FIG. 28N.

13 FIG. 29 is a perspective view of another of the present devices.

14 FIG. 30 is a side view of the device depicted in FIG. 29.

15 FIG. 31 is a front view of the device depicted in FIG. 29.

16 FIG. 32 is a back view of the device depicted in FIG. 29.

17 FIG. 33 is a top view of the device depicted in FIG. 29.

18 FIG. 34 is a top view of the device depicted in FIG. 29, showing that the device  
19 may include a wallet.

20 FIG. 35 is a top view showing the arms of the device depicted in FIG. 29 folded  
21 back.

1           FIG. 36 is an exploded view of the elements of another version of the device  
2       depicted in FIG. 29.

3           FIGS. 37-42 are inside (side), outside (side), end, top, outside perspective, and  
4       inside perspective views, respectively, of a version of one of the present arms that has an  
5       outwardly protruding indentation.

6           FIGS. 43-48 are inside (side), outside (side), end, top, outside perspective, and  
7       inside perspective views, respectively, of another version of one of the present arms that  
8       has an outwardly protruding indentation.

9           FIGS. 49-50 are top and detail views, respectively, showing a configuration of  
10      one embodiment of one of the present clips and the present arms configured such that the  
11      arms contact the clip early in the opening process for increased leverage, in contrast to  
12      the manner in which traditional binder clips work.

13           FIGS. 51-52 are top and detail views, respectively, showing the embodiment of  
14      device depicted in FIGS. 49 and 50 is an open position resulting from the benefit of that  
15      increased leverage.

16           FIGS. 53-56 are side, end and detail views showing one embodiment of a suitable  
17      shape for certain of the present hinges, especially the shape of the portion of hinge that  
18      defines its outer open ends. Such shape furthers the likelihood that the arms that are  
19      coupled to such hinges will snap into place as they are closed.

20           FIGS. 57A-57D are a series of views showing one of the present hinges and the  
21      position—during the process of closing the arms—of a cross-sectionally depicted portion

1 of one of the present hinge segments that is positioned at least partially within that hinge  
2 (e.g., within an outer open end of the same).

3 FIG. 58 is a perspective view of one of the present devices that has bowed arms.

4 FIG. 59 is a side view of the device shown in FIG. 58.

5 FIG. 60 is a front view of the device shown in FIG. 58.

6 FIG. 61 is a rear perspective view of the device shown in FIG. 58.

7 FIG. 62 is a top view of the device shown in FIG. 58.

8 **DESCRIPTION OF ILLUSTRATIVE EMBODIMENTS**

9 The terms “comprise” (and any form of comprise, such as “comprises” and  
10 “comprising”), “have” (and any form of have, such as “has” and “having”), and “include”  
11 (and any form of include, such as “includes” and “including”) are open-ended linking  
12 verbs. Thus, a device “comprising” a clip having two ends and a leverage bump, and an  
13 arm coupled to each end is a device that possesses such a clip and such arms, but is not  
14 limited to possessing those items. For example, the device may also possess a wallet  
15 configured to be held by the clip. Likewise, a clip “having” two ends and a leverage  
16 bump possesses those features, but is not excluded from possessing additional features  
17 such as an additional leverage bump.

18 The terms “a” and “an” mean one or more than one. The term “another” means at  
19 least a second or more.

20 Those of skill in the art will appreciate that in the detailed description below,  
21 certain well known manufacturing and assembly techniques have been omitted so that the  
22 present devices are not obscured in unnecessary detail. Similarly, some features of the

1 some of the devices have not been labeled in all of the drawings, so that the drawings are  
2 not unnecessarily cluttered. Any dimensions provided in English units may be translated  
3 to the corresponding metric unit by rounding to the nearest millimeter.

4 FIGS. 1-9 show different views of one of the present devices. FIG. 10 shows that  
5 the device depicted in FIGS. 1-9 may include a wallet. Turning first to FIG. 1, device  
6 100 includes a clip 10 having two ends 14 and a leverage bump 16. More specifically,  
7 clip 10 shown in FIG. 1 includes two leverage bumps 16. Device 100 also includes an  
8 arm 20 that is pivotally coupled to each end 14. As will be shown in another figure and  
9 described below, one of the arms of device 100 contacts a leverage bump when the clip is  
10 opened. More specifically, in the embodiment shown in FIG. 1, each arm 20 will contact  
11 a leverage bump 16 when clip 10 is opened. Arms 20—as well as arms 50, 80, 430, and  
12 530—are examples of non-wire frame arms. In contrast, the following patents disclose  
13 only arms with wire frames: U.S. Patents D321,209; D321,210; 1,139,627; 1,150,073;  
14 4,332,060; 4,402,530; 4,532,680; 4,761,862; 5,249,336 (shows wire frame covered with a  
15 sleeve); 5,533,236; 5,896,624; and 6,327,749. Clip 10 may be characterized as a clip that  
16 is not substantially triangular in shape when in an empty (nothing in it) closed position, as  
17 shown for example in FIGS. 1 and 5. In contrast, the following patents and application  
18 disclose only clips that are substantially triangular in shape when in an empty closed  
19 position: U.S. Patents D321,209; D321,210; D372,498; D485,780; 1,139,627; 1,150,073;  
20 4,332,060; 4,402,530; 4,532,680; 4,761,862; 5,249,336; 5,533,236; 5,896,624; 6,327,749;  
21 and U.S. Patent Application Serial No. 10/060,942 filed January 30, 2002 in the name of  
22 Chip Thomson.

1        Clip 10 of device 100 in FIGS. 1-10, as well as clip 10 in devices 200 and 300  
2        depicted in FIGS. 11-16, may also be referred to in this document (including the claims)  
3        as a spring. The leverage bump that are part of the present clips may be any suitable  
4        shape configured to contact the present arms when those clips are opened. The present  
5        leverage bumps may be formed by placing extra material on a clip that has already been  
6        created and attaching that material to the clip in any suitable fashion, such as through the  
7        use of an adhesive, heat, pressure, soldering, welding, or any combination of these.  
8        Alternatively, the present leverage bumps may be created with the clips as the clips are  
9        formed. For example, the leverage bumps shown throughout FIGS. 1-16 may be stamped  
10      out such that they protrude outwardly from the outside of the clips and have a  
11      corresponding indentation on the inside of the clips.

12       A version of a suitable leverage bump for use with the present clips is shown  
13      generally in FIGS. 1-16. Each leverage bump 16 includes two outer portions 17 and a  
14      middle portion 19. As shown in the figures, and most clearly in, for example, FIG. 3,  
15      outer portions 17 protrude more outwardly from clip 10 than does middle portion 19.  
16      Suitable exemplary thicknesses for the material that may be used to make certain  
17      embodiments of clip 10 include spring steel having a thickness of 0.025 inches to 0.018  
18      inches.

19       In the embodiment of the present devices shown in FIGS. 1-10, arms 20 each  
20      include an indentation 32 and an insert 34 contacting, or otherwise positioned in, the  
21      indentation. The shape of the indentation may be created to match the shape of the insert.  
22      However, while both may have flat surfaces to facilitate attachment of the two, indentation  
23      32 may have a slightly different shape than an insert 34 placed in it, as shown in these

1 figures. Suitable exemplary thicknesses for the material that may be used to make certain  
2 embodiments of clip 10 include 0.048 inches to 0.062 inches.

3 FIG. 2 is a side of the device shown in FIG. 1. FIG. 2 shows that each arm 20  
4 includes two hinge elements 22 that are separated by two slots 24 and a middle  
5 segment 26. As shown in FIGS. 6 and 7, each hinge element 22 has an elongated  
6 segment 25 and a hinge segment 27. As shown in FIGS. 2, 5, 7 and 8, each end 14 of clip  
7 10 includes an arm-retaining portion 18. These portions may also be characterized as  
8 hinges 18. The arm-retaining portions 18 of clip 10 are positioned beside each when clip  
9 10 is in an empty closed position, as it is in FIGS. 1 and 5. The arm-retaining portions  
10 are cylindrical in shape and are unbroken along their lengths, which respectively span  
11 substantially the entire width of clip 10. The term “substantially” is defined as at least  
12 close to (and can include) a given value or state (preferably within 10% of, more  
13 preferably within 1% of, and most preferably within 0.1% of). A suitable diameter for  
14 the cylinder shape of one embodiment of hinge 18 is 0.085 inches inner diameter. Each  
15 arm-retaining portion, or hinge, also has two outer open ends. As shown schematically in  
16 FIG. 7, the hinge segments 27 of a given arm 20 are designed to be placed in one of the  
17 two arm-retaining portions of clip 10. As a result of that placement, and as shown in  
18 FIGS. 1, 2, and 8, the hinge segments are located, or positioned, at least partially within  
19 the arm-retaining portion in which they are placed (the hinge segments are not labeled in  
20 these figures). The result of that placement may also be characterized as positioning the  
21 hinge segments at least partially within the two outer open ends of each hinge. Those  
22 hinge segments may have a non-circular cross-sectional profile, as does hinge segment 57  
23 shown in FIGS. 57A-57D.

1           FIGS. 3 and 4 show what device 100 looks like from the front and back,  
2 respectively. FIG. 5 shows what device 100 looks like from the top. FIG. 7  
3 schematically shows how the elements of device 100 fit together. FIG. 6 shows a side  
4 view of handle 20 of device 100. FIG. 8 shows a perspective view of device 100, where  
5 arms 20 have been folded back, but clip 10 has not yet been opened.

6           FIG. 6 shows that the hinge elements 22 of arm 20 of device 100 may be longer  
7 than the middle segment 26 of that arm. Specifically, hinge elements 22 are shown  
8 having a length 22L that is greater than length 26L of middle segment 26. A suitable  
9 distance for the length of the entirety of one embodiment of arm 20 is 2.275 inches.

10          Returning to FIG. 2, middle segment 26 includes an edge 29 that is positioned  
11 near arm-retaining portion 18 of clip 10. This may be true of the middle segments of  
12 both arms 20 of device 100, although only one arm 20 is visible in FIG. 2. FIG. 2 also  
13 shows that each arm 20 of device 100 has a widest portion 20WP that has substantially  
14 the same width as the widest portion 10WP of clip 10. A suitable distance for 10WP of  
15 one embodiment of clip 10 is 1.481 inches, and a suitable distance for 20WP of one  
16 embodiment of arm 20 is 1.485 inches. Although the widest portions of the present clips  
17 and arms may be positioned anywhere along the lengths of those items, FIG. 2 shows  
18 that, in one embodiment, widest portion 20WP of each arm 20 is positioned near widest  
19 portion 10WP of clip 10.

20          The indentations of the arms of the devices shown in figures 1-16 are positioned  
21 such that the inserts in those indentations (or the indentations themselves) do not contact the  
22 leverage bumps when the clips are opened. This is shown, for example, in FIG. 9, which  
23 depicts clip 10 in an open position. In other embodiments, however, the inserts and

1        indentions may be positioned in the arms so as to contact the leverage bumps when a  
2        given clip is opened. FIG. 9 also illustrates that clip 10 is one example of a clip that has  
3        an open position that includes two substantially parallel sides connected by an arch. In  
4        contrast, the following patents and application disclose only clips that lack an open  
5        position that includes two substantially parallel sides connected by an arch: U.S. Patents  
6        D321,209; D321,210; D372,498; D485,780; 1,139,627; 1,150,073; 4,332,060; 4,402,530;  
7        4,532,680; 4,761,862; 5,249,336; 5,533,236; 5,896,624; 6,327,749; and U.S. Patent  
8        Application Serial No. 10/060,942 filed January 30, 2002 in the name of Chip Thomson.

9              One advantage of the present leverage bumps is that they may isolate the wear on  
10        the present clips that results from repeated opening of the clips, provided the leverage  
11        bumps are sized and positioned so that the contact between the arms of the present  
12        devices and the clips of the present devices occurs at the leverage bumps. In this way,  
13        the leverage bumps can be thought of as the isolation points for the inevitable wear on the  
14        clips of the present devices.

15              FIG. 10 is a top view of device 100, and shows that device 100 may include a  
16        wallet 36 that is effectively held by clip 10, and more specifically holding portion HP of  
17        clip 10. Holding portion HP of clip 10, shown in FIGS. 5 and 10, may include at least  
18        arm-retaining portions 18 of ends 14. Wallet 36 may have a back end positioned against  
19        the inside of clip 10 such that the rear portion of wallet 36 may be described as being  
20        received in receiving portion RP of clip 10 (see FIGS. 5 and 10). FIG. 5 shows that  
21        receiving portion RP of clip 10, or spring 10, may include an arch A. A suitable diameter  
22        for one embodiment of that arch is 0.5 inches. Furthermore, clip 10, or spring 10, may be

1 referred to in this document (including the claims) as having an arcuate shaped portion  
2 (such as arch A) at one end of the clip, and two arm-retaining portions 18.

3 The clips, or springs, 10 shown in FIGS. 1-16, all have the same configuration.  
4 Thus, the details of clips 10 – such as the leverage bumps, the receiving and holding  
5 portions, the arm-retaining portions, etc. – are not labeled in FIGS. 12 and 14. The arms  
6 shown in FIGS. 11-13, in FIGS. 14-16 and in FIGS. 58-62 are shaped differently  
7 (although they include the same features) from the arms shown in FIGS. 1-10.  
8 Accordingly, these alternative arms have been given new element numbers in FIGS. 11-  
9 16 and 58-62. The last digit of these new element numbers remains the same of the last  
10 digit of the corresponding element number from the arms in FIGS. 1-10, except the first  
11 digit has been increased by 30 in FIGS. 11-13, by 60 in FIGS. 14-16, and by 90 in FIGS.  
12 58-62. Although the hinge segments of the arms of device 600 shown in FIGS. 58-62  
13 exist, they are not visible in those figures. The arms 110 in FIGS. 58-62 may be  
14 described as having a length (the length running from edge 119 to the forwardmost end of  
15 the arm (*i.e.*, the portion of the arm farthest from the clip when device 600 is in an empty  
16 closed position)) and being bowed along the length.

17 Arms 50 of device 200 depicted in FIGS. 11 and 12 include indentions 62 and  
18 inserts 64. Arms 50 of device 200 also each include two hinge elements 52 separated by  
19 two slots 54 and a middle segment 56. As shown in FIG. 13, each hinge element 52  
20 includes an elongated segment 55 and a hinge segment 57. The hinge segment 57 of a  
21 given arm 50 are designed to fit at least partially within the arm-retaining portion 18 (or  
22 at least partially within the open ends of the arm-retaining portion 18) of an end 14 of clip  
23 10. Furthermore, as with hinge elements 22 and middle segments 26 of arms 20, the

1 hinge elements 52 of each arm 50 are longer than the middle segment 56 of each arm.  
2 This is illustrated in FIG. 13 by hinge element 52 having a linked 52L that is greater than  
3 the length 56L of middle segment 56.

4 The arm-retaining portions, or hinges, of the present clips 10 and the arms (*e.g.*,  
5 the non-wire frame arms) that are, respectively, pivotally coupled to them may be  
6 collectively configured such that those arms snap into position as they (*i.e.*, those arms)  
7 are moved from a bent-back position (see, *e.g.*, FIG. 8) to a closed position (see, *e.g.*,  
8 FIGS. 1 and 5). Such a configured hinge and non-wire frame arm are shown in FIGS.  
9 57A-57D, which are a series of views showing a hinge 18 and the position during the  
10 process of closing the arms of a cross-sectionally depicted portion of a hinge segment 57  
11 positioned at least partially within that hinge (*e.g.*, within an outer open end of the same).  
12 FIG. 57A shows the position of hinge segment 57 when the arm of which it is a part is in  
13 a bent-back position; FIG. 57B shows the position of hinge segment 57 when the arm of  
14 which it is at a 90-degree angle to the length of the clip; FIG. 57C shows the position of  
15 hinge segment 57 when the arm of which it is a part is just about to snap closed; and FIG.  
16 57D shows the position of hinge segment 57 when the arm of which it is a part has  
17 snapped into the empty closed position.

18 FIGS. 37-42 are inside (side), outside (side), end, top, outside perspective, and  
19 inside perspective views, respectively, of a version of arm 50 that includes an indentation  
20 62 that protrudes outwardly from the outside of arm 50 such that indentation 62 will  
21 contact a leverage bump of a clip having a leverage bump at some point during the  
22 process of opening the clip as far as it will open. No insert is provided in this  
23 embodiment of arm 50.

1           FIGS. 43-48 are inside (side), outside (side), end, top, outside perspective, and  
2       inside perspective views, respectively, of another version of arm 50 that includes an  
3       indentation 62 that protrudes outwardly from the outside of arm 50 such that indentation 62  
4       will contact a leverage bump of a clip having a leverage bump at some point during the  
5       process of opening the clip as far as it will open. The edge of indentation 62—judged from  
6       the outside of arm 50—is closer to the edge of the forwardmost end of the arm than the  
7       same edge of indentation 62 in FIGS. 37-42. No insert is provided in this embodiment of  
8       arm 50.

9           Arms 80 of device 300 depicted in FIGS. 14 and 15 include indentions 92 and  
10      inserts 94. The same indentation and insert are labeled with 92' and 94', respectively, in  
11      FIG. 16, because the sizes of the two features is slightly different in FIG. 16. Arms 80 of  
12      device 300 also each include two hinge elements 82 separated by two slots 84 and a  
13      middle segment 86. As shown in FIG. 16, each hinge element 82 includes an elongated  
14      segment 85 and a hinge segment 87. The hinge segment 87 of a given arm 80 are  
15      designed to fit at least partially within the arm-retaining portion 18 of an end 14 of clip  
16      10. Furthermore, as with hinge elements 22 and middle segments 26 of arms 20, the  
17      hinge elements 82 of each arm 80 are longer than the middle segment 86 of each arm.  
18      This is illustrated in FIG. 16 by hinge element 82 having a length 82L that is greater than  
19      the length 86L of middle segment 86.

20           The clips and arms in certain embodiments of the devices shown in FIGS. 1-16  
21      and 37-48 may be configured such that when force is applied to begin opening the clip of  
22      the device, one or both arms contact the clip at a location that is closer to the hinges of  
23      the clip than to the arch of the retaining portion RP, and the clip will begin to open before

1       any contact between that arm and the clip at a second location that is closer to the arch  
2       than the hinges. An example of such a configuration is illustrated in FIGS. 49-52. FIG.  
3       49 shows that clip 10 of device 100 (unlabeled) may have a main portion 23 that excludes  
4       the hinges 18 and the very back end of the tip of the arch. The device is in a bent-back  
5       position in this figure. FIG. 50 is an enlarged view of the detail circled in FIG. 49, and  
6       shows that contact between arm 50 and clip 10 (and, more specifically, main portion 23  
7       of arm 50) occurs—during the process of applying force to begin opening clip 10—as  
8       locations 29, which are closer to the end 19 of the clip that is characterized by hinges 18  
9       than to the end 21 of the clip that is characterized by the arch. (A suitable length  
10      spanning ends 19 and 21 for one embodiment of clip 10 is 1.245 inches.) Locations 29  
11      may be positioned on segment 15, or protrusion 15, of clip 10 shown in, for example,  
12      FIGS. 53-56. FIG. 51 shows that as someone or something continues to apply that force,  
13      clip 10 will begin, and begins, to open before any contact between either arm and main  
14      portion 23 of clip 10 occurs at a second location (e.g., leverage bump 16 of clip 10) that  
15      is closer to end 21 than end 19. FIG. 52 shows that opening in slightly greater detail.

16           To the same end of configuring the clip as just discussed, the hinges of the present  
17      clips may be configured as shown in the different views of FIGS. 53-56. The edges 13 of  
18      the hinges 18 that define the outer open ends of those hinges may be shaped as shown in  
19      these figures.

20           There are many suitable ways of constructing the present devices, and there are  
21      many suitable materials that may be used. One material that may be used for the clip or  
22      spring of the devices shown in FIGS. 1-16 is carbon steel (e.g., medium carbon steel), or  
23      spring steel. The arms of these devices may also be made from such material. To create

1 the clip using spring steel, a flat piece that has the shape of the clip laid flat may be cut  
2 using a die and punch method (*e.g.*, stamped at room temperature). Any leverage bumps  
3 that are used on that clip may then be pressed into the cut clip using, for example, a die.  
4 The hinges of the clip may then be formed such that, in some embodiments, material is  
5 wrapped to form the hinges. Afterwards, the flat piece of spring steel may be bent to the  
6 desired configuration and tempered. The tempering may involve heating the material to  
7 1525 to 1575 degrees F (Fahrenheit) for a suitable period of time; quenching the material  
8 to 350 to 400 degrees F; and tempering the material to 700 to 800 degrees F for a suitable  
9 period of time. This heating and quenching may result in an Rc50 hardness. If the arms  
10 are made from spring steel, they may be cut using a die and punch method (*e.g.*, stamped  
11 at room temperature) from spring steel that has been tempered. Alternatively, the spring  
12 steel need not have been tempered. In either case, any indentions may then be formed  
13 using, for example, a die. Any bow, such as a 1-, 2-, or 3-degree bow, that is given to the  
14 arms may then be formed using, for example, a die; and the heat treatment described  
15 above for the clip may be used on the arms. Sharp edges may be debugged after the  
16 stamping process described above. The debugged material may then be polished using  
17 any suitable polishing agent. Furthermore, electroplating and laser engraving may be  
18 used as desired to create a more attractive products. A brass electroplating may be  
19 applied to the clip and/or the arms, followed by one of a chrome, black nickel and silver  
20 electroplating. If chrome electroplating is used, a titanium electroplating may be applied  
21 over it. In any case, a clear E coating may be applied over whatever electroplating is  
22 carried out. The arms may then be pivotally coupled (*e.g.*, hinged) to the hinges of the  
23 clip, and the resulting product may be packaged for sale.

1           Alternatively, the arms may be constructed from titanium, or any other metal or  
2       alloy that is stiff, not easily plastically-deformed, and that has good wear-resistant  
3       properties. It may also be possible to utilize certain polymers for the arms of the devices  
4       shown, for example, in FIGS. 1-16, provided the polymer possesses these same  
5       properties. Injection molding (using, for example, an extruder at some point in the  
6       process) may be used to create arms from polymers.

7           The remaining figures show other embodiments of the present devices. These  
8       embodiments include, generally, a clip, an outer element in contact with the clip, and  
9       arms pivotally coupled to the outer element. The clips in the remaining figures may also  
10      be described in this document (including the claims) as springs.

11          Referring generally now to FIGS. 17-27C, one embodiment of the present devices  
12       is device 400 shown in these figures. Device 400 includes a clip 410 that has an outer  
13       surface. Device 400 also includes an outer element 420 that contacts the outer surface of  
14       clip 410. Outer element 420 includes two ends 422. Device 410 includes an arm 430  
15       pivotally coupled to each end 422. The arms 430 of device 400 may be provided with an  
16       indention 431 and an insert (not shown), in the same fashion as described above for the  
17       devices shown in FIGS. 1-16. Alternatively, no such indentation may be provided (see  
18       FIG. 27A). The arms 430 of device 400 may be provided with a protrusion 428.  
19       Protrusions 428 are shown in FIGS. 17-27C as being centered across the width of arms  
20       430. Protrusions 428 may be positioned so as to contact outer element 420 when clip 410  
21       is opened.

22          Outer element 420 includes two sides 424, 426 that are hinged together. The  
23       hinging may be achieved by providing side 424 with a male element 495 (e.g., a

1       “tongue”) that has a passageway running through it (the passageway is unlabeled and  
2       may be cylindrical in shape); providing side 426 with two outer portions 497 that define  
3       between them a female portion 499 (e.g., a “groove”), the outer portions 497 each having  
4       a passageway running through them (the passageways are unlabeled and may be  
5       cylindrical in shape); and joining the outer portions 497 with the male portion 495 using a  
6       pin 440, as shown schematically in FIG. 25.

7                  Sides 424 and 426 each include an outer surface 450 that has a recessed portion  
8       452. Protrusions 428 of arms 430 of device 400 may be positioned so as to contact  
9       recessed portions 452 when clip 410 is opened.

10                 Arms 430 are shown in FIGS. 17-27C as being coupled to ends 422 with pins 460  
11       (see, especially, FIG. 25). One manner of achieving this pivotal coupling involves  
12       providing each arm 430 with a coupling portion 462 (shaped, for example, like a portion  
13       of a cylinder) that contacts the pin 460 that couples that arm to an end 422. Similarly, the  
14       end 422 of each side 424 and 426 may be provided with coupling portions 476 that  
15       contact the pin 460 that couples a given arm to that end (see, e.g., FIGS. 23-25).

16                 Outer element 420 of device 400 includes an inner surface that includes a  
17       recessed portion, and clip 410 contacts the recessed portion of that inner surface. A  
18       version of this is shown in cross-sectional form in FIG. 22, where each side 424 and 426  
19       includes an inner surface 464 with a recessed portion 466. Inner surfaces 464 of the two  
20       sides of element 420 comprise the inner surface of outer element 420. In addition, the  
21       recessed portions 466 of the two sides of outer element 420 comprise the recessed portion  
22       of the inner surface of outer element 420. Clip 410 is shown in FIG. 22 as being in

1 contact with the recessed portion of the outer element (e.g., recessed portions 466 of the  
2 inner surfaces 464 of sides 424 and 426).

3 FIG. 23 shows that the recessed portion 466 of inner surface 464 of side 426 (and  
4 this is also true of side 424) is bordered by two shoulder portions 468 (see also FIG. 25).  
5 Each shoulder portion 468 includes a groove 470 into which a portion of clip 410 fits.  
6 Grooves 470 are shown in FIGS. 22, 24, 27B and 27C. The manner in which portions of  
7 clip 410 fit within grooves 470 will be understood from considering FIGS. 25, 27B and  
8 27C.

9 In FIG. 25, clip 410 as shown includes a back portion 485 and two retainer  
10 portions 487. Each retainer portion 487 includes an upper retainer element 483 and a  
11 lower retainer element 484. These two retainer elements are separated by a holding  
12 element 490. Holding element 490 extends farther from back portion 485 than either  
13 retainer element of either retainer portion. The upper and lower retaining elements 483  
14 and 484, respectively, fit within grooves 470 as shown in FIGS. 27B and 27C. Holding  
15 elements 490 are slightly curved at their ends, as shown in FIG. 25. Holding elements  
16 490 do not fit within and extend past grooves 470. The operation of holding elements  
17 490 will be discussed more below.

18 FIG. 27A shows that a wallet 480 holding cards and around which paper has been  
19 folded may be placed within device 400. Device 400 may be said to include wallet 480.  
20 Wallet 480 may be sized, or configured, to be held by clip 410. The portions of clip 410  
21 that will perform most, if not all, of the "holding" function are the portions of shoulder  
22 portions 468 that form grooves 470. The surface of those portions may be rounded and

1 smooth, as shown in the figures, so as not to damage the wallet or any paper wrapped  
2 around the wallet.

3 Holding elements 490 may provide some or none of the “holding” function.  
4 Holding elements 490 primarily function to prevent unwanted movement of arms 430. In  
5 this regard, coupling portions 462 of arms 430 may be provided with one or more cam  
6 bumps 489 (see FIGS. 25 and 27C). FIGS. 28A-28O are a series of views that show how  
7 holding elements 490 operates in the embodiment shown to keep pressure on arms 430,  
8 in part, through contact with cam bumps 489. These figures (along with FIGS. 27B and  
9 27C) also show that the coupling portion of the arms of may be “closed,” instead of half-  
10 open, as shown, for example, in FIG. 25.

11 FIGS. 29-36 show another of the present devices that includes a clip, an outer  
12 element in contact with the clip, and arms pivotally coupled to the outer element. There  
13 are a number of similarities between the devices shown in FIGS. 29-36 and the devices  
14 shown in FIGS. 17-28O. Accordingly, elements of the devices in FIGS. 29-36 that are  
15 similar to certain elements of the devices in FIGS. 17-28O have been given similar  
16 element numbers, except that the element numbers have been increased by 100.  
17 Likewise, the only difference between the device depicted in FIGS. 29-35 and the device  
18 depicted in FIG. 36 are certain details of the arms and sides of those devices. As a result,  
19 where the sides and arms of the device depicted in FIGS. 29-35 have been labeled 526,  
20 524, and 530, respectively, those same elements have been labeled 526’, 524’, and 530’  
21 for the device depicted in FIG. 36. The shape of the coupling portions 562 of arms 530  
22 of FIG. 500 shown in FIGS. 29-35 are also slightly different in shape than those same

1       features in device 500' in FIG. 36. Accordingly, the coupling portion of arms 530' have  
2       been labeled with element number 562'.

3           Unlike the device shown in FIGS. 17-28O, device 500 in FIGS. 29-35 includes  
4       leverage bumps on at least one side of outer element 520. More specifically, outer  
5       element 520 of device 500 includes leverage bumps 501 on both sides 526 and 524. At  
6       least one arm 530 of device 500 includes a leverage bump 502. More specifically, both  
7       arms 530 of device 500 include leverage bumps 502. Each leverage bump 502 contacts  
8       outer element 520 when clip 510 is open. More specifically, each leverage bump 502 is  
9       configured to contact leverage bump 501 of the corresponding side of outer element 520  
10      when clip 510 is opened. This contact is shown in FIG. 35 just prior to clip 510 being  
11      opened.

12           Sides 526 and 524 of device 500, and sides 526' and 524' of device 500', each  
13       have two elongated elements 505 that define between them an arm recess. This arm  
14       recess is labeled as 509 in FIGS. 29-35 and as element 509' in FIG. 36. The difference  
15       between the two arm recesses is the shape near the coupling portions 562 and 562' of the  
16       two devices.

17           Arms 530 and 530' of devices 500 and 500' may be provided with female notches  
18       503 as shown in FIG. 36. Outer elements 505 of devices 500 and 500' may be provided  
19       with corresponding male notches 507 as shown in FIG. 36. If appropriately configured,  
20       the corresponding notches may better serve to keep arms 530 and 530', respectively,  
21       from bending more inwardly than elongated elements 505 when the devices are in the  
22       closed position.

1       The elements of the devices shown in FIGS. 17-36 may be made in a variety of  
2       ways. One way of making the clips of these devices is discussed above (i.e., using spring  
3       steel that is cut, bent, and then tempered). The outer elements and arms of the devices in  
4       these figures need not be as rigid as the arms of the devices in FIGS. 1-16 preferably are.  
5       For example, the outer elements (e.g., the sides of the outer elements) of the devices in  
6       FIGS. 17-36 may be made from cast aluminum, silver (e.g., sterling silver), gold  
7       (provided the carat value is not too high), magnesium, steel, titanium, or a hard polymer.  
8       The arms and out elements may be cast or injection molded using either a metal (or alloy)  
9       or a polymer.

10       All of the devices disclosed and claimed can be made and used without undue  
11       experimentation in light of the present disclosure. While the present devices have been  
12       described in terms of certain embodiments, it will be apparent to those of skill in the art  
13       that variations may be applied to these devices without departing from the scope of the  
14       present invention as defined by the following claims. For example, the arms of the  
15       present devices may be any suitable shape, including hexagonal, or octagonal, as may any  
16       indentions and inserts.

17       The claims are not to be interpreted as including means-plus- or step-plus-  
18       function limitations, unless such a limitation is explicitly recited in a given claim using  
19       the phrase(s) "means for" or "step for," respectively.